**JITED STATES** 

(formerly 9-331c) DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. **UTU-76768** BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 1a TYPE OF WORK X **PLUG BACK** DEEPEN 7. UNIT AGREEMENT NAME DRILL na B TYPE OF WELL 8. FARM OR LEASE NAME GAS OIL MULTIPLE ZONE WELL OTHER ZONE WELL 9. WELL NO. 2. NAME OF OPERATOR North Horseshoe 5-20-6-22 The Houston Exploration Company 10. FIELD OR LEASE NAME 3. ADDRESS OF OPERATORS Undosignated 1100 Louisiana, Suite 2000 Houston, TX, 77002 11. Sec., T., R., M., OR BLK 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement) 40.286214 at surface 2,162' FNL & 471' FWL SWNW 629732 X AND SURVEY OR AREA 109. 477724 Sec. 20 T.6S, R.22E same as above 4460422 At proposed prod. Zone 12. COUNTY OR PARISH 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE Utah 13.3 miles south of Vernal, UT 7. NO. OF ACRES ASSIGNED 15 DISTANCE FROM PROPOSED LOC. TO NEAREST PROP. OR LEASE 16. NO. OF ACRES IN LEASI TO THIS WELL LINE, FT. (Also to nearest drlg. Unit line, if any) 40 2,240 471' 20. ROTARY OR CABLE TOOLS 19 PROPOSED DEPTH 16. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED 10,500' Rotary 2.000 OR APPLIED FOR, ON THIS LEASE, FT. 22. APPROX. DATE WORK WILL START 21. ELEVATION (SHOW WHETHER DF. RT, GR, etc.) 1,01,2007 5,098' GR PROPOSED CASING AND CEMENT PROGRAM QUANTITY OF CEMENT

SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH 2000' 238 sks 8 5/8" 36# 11" 4 1/2" 11.6# 1,077 sks 7 7/8" T.D.

The operator requests permission to drill the subject well. Please find the attached 10 point plan and 13 point plan.

William A Ryan 290 S 800 E Vernal, UT 84078 435-789-0968

CONFIDENTIAL

Federal Approval of this Action is Necessary

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM If proposed in to deepen or plug back, give data on proposed productive zone and proposed new or deepen directional, give pertinent data on subsurface location and measure and true vertical depths. Give

blowout preventer program, if a	ny			
signature	William A. Ryan	Agent	DATE	4-17-06
, ,	43-047-310019	ADDROVIAL DATE		
	all V	APPROVAL DATE  BRADLEY G. HILL  ENVIRONMENTAL MANAGER	D	04-25-06
CONDITIONS OF APPROVA	DF AND	ENVINORMENTAL MANAGER	ı	

\*See Instructions on Reverse Side

APR 19 2006

#### THE HOUSTON EXPLORATION COMPANY T6S, R22E, S.L.B.&M. Well location, NORTH HORSESHOE #5-20-6-22. located as shown in the SW 1/4 NW 1/4 of 1967 Brass Cap 1967 Brass Cap 1967 Brass Cap 1.0' High, Pile Section 20, T6S, R22E, S.L.B.&M. Uintah County. 0.7' High, Pile 0.7' High, Pile of Stones S89'35'30"W - 2671.87' (Meas.) of Stones S89'31'51"W - 2676.12' (Meas.) of Stones Utah. BASIS OF FLEVATION SPOT ELEVATION LOCATED AT THE NORTHWEST CORNER OF (Meas. SECTION 18, T6S, R22E, S.L.B.&M. TAKEN FROM THE RASMUSSEN HOLLOW, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES 26, DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, SAID ELEVATION IS MARKED AS BEING 4738 FEET. BASIS OF BEARINGS BASIS OF BEARINGS IS A G.P.S. OBSERVATION NO0.42,56 10, NORTH HORSESHOE #5-20-6-22 Elev. Unaraded Ground = 5101' 1967 Brass Cap 0.3' High, Pile of Stones 1967 Brass Cap 1.2' High, Pile of Stones (Meas., (Meas. 65, SCALE 618. 2619. CERTIFICATE THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE 'n BEST OF MY KNOWLEDGE AND BELIEF 500.50,12 REGISTERED LAND SURVEYOR REGISTRATION NO. 161319 1967 Brass Cap 1967 Brass Cap 0.5' High, Pile STATE OF UTAH 0.4' High, Pile of Stones of Stones N8917'31"E - 2685.17' (Meas.) 1967 Brass Cap N89'20'39"E - 2690.06' (Meas.) UINTAH ENGINEERING & LAND SURVEYING Flush with Ground, 85 SOUTH 200 EAST - VERNAL, UTAH 84078 Two Stones (435) 789-1017 LEGEND: (AUTONOMOUS NAD 83) SCALE DATE SURVEYED: LATITUDE = $40^{\circ}17'10.09''$ (40.286136) DATE DRAWN: = 90' SYMBOL 1" = 1000'11 - 5 - 0511-9-05 LONGITUDE = $109^{\circ}28^{\circ}28.21^{\circ}$ (109.474503) PARTY REFERENCES = PROPOSED WELL HEAD. (AUTONOMOUS NAD 27) G.O. T.A. E.C.O. G.L.O. PLAT LATITUDE = $40^{\circ}17'10.22''$ (40.286172) SECTION CORNERS LOCATED. WEATHER FII F LONGITUDE = $109^{\circ}28^{\circ}25.73^{\circ}$ (109.473814) COOL THE HOUSTON EXPLORATION COMPANY

#### Ten Point Plan

#### The Houston Exploration Company

#### North Horseshoe 5-20-6-22

Surface Location SW 1/4 NW 1/4, Section 20, T. 6S., R. 22E.

## 1. Surface Formation Duchesne

#### 2. Estimated Formation Tops and Datum:

Formation	Depth	Datum
Duchesne	Surface	5,098'G.L.
Uintah	1,800'	+3,298'
Green River	3,800'	+1,298'
Wasatch	6,900'	-1,802'
Mesaverde	10,000	-4,902'
TD	10,500'	-5,402'

A 11" hole will be drilled to 2,000' +/-. The hole depth will depend on the depth that the Birds Nest Zone is encountered. The hole will be drilled 400' beyond the top of the Birds Nest.

#### 3. Producing Formation Depth:

Formation objective includes the Green River, Wasatch, Mesaverde and its submembers.

Off set well information

Permitted/Drilled:

North Horseshoe 1-20-6-22 North Horseshoe 3-20-6-22 North Horseshoe 7-20-6-22 North Horseshoe 11-20-6-22 North Horseshoe 13-20-6-22 North Horseshoe 7-19-6-22

### 4. Proposed Casing:

Hole	Casing			Coupling	Casing	
Size	Size	Weight/FT_	<u>Grade</u>	& Tread	<u>Depth</u>	New/Used
11	8 5/8	36#	J-55	STC	2000	NEW
7 7/8	4 1/2	11.6#	N-80	LTC	T.D.	NEW

Cement Program:

Cement volume = Gauge hole + 25%

## The Surface Casing will be cemented from 2000' to the Surface as follows:

Condu	Casing Size ctor: 0'- 40'	Cement Type	Cement Amounts	Cement <u>Yield</u>	Cement Weight
Condu	14"	Premium "5"	35 sks. +/-	1.18ft³/sk	15.6 ppg
Lead:	0'- 1,300'				
	8 5/8"	Premium "5"	87 sks. +/-	3.82ft³/sk	11.0 ppg
Tail: 1	,300'- 2,000'				
	8 5/8"	Premium "5"	151 sks. +/-	1.2ft³/sk	15.6 ppg

NOTE:

Cement top for tail = Trona + 200'

# <u>Production casing will be cemented to 200' inside surface casing or higher as follows:</u>

Casing <u>Size</u>	Cement Type	Cement Amounts	Cement <u>Yield</u>	Cement Weight
Lead: 1,800'- 6,700'				
4 ½"	Premium "5"	421 sks +/-	3.82ft³/sk	11.0 ppg
Tail: 6,700'- TD				
4 1/2"	Premium "5"	656 sks +/-	1.18ft³/sk	15.6 ppg
NOTE: Cement top for tail = Wasatch + 200'				
Cement top for tan	Trasacon 200			

#### 5. BOP and Pressure Containment Data:

The anticipated bottom hole pressure will be less than 3000 psi.

A 3000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 8 5/8" surface casing. The BOP system including the casing will be pressure tested to minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

#### 6. Mud Program:

<u>Interval</u>	Mud weight <a href="lbs./gal">lbs./gal</a> .	Viscosity Sec./OT.	Fluid Loss M1/30 Mins.	Mud Type
0-2000 2000-T.D.	Air/Clear Water 8.4-12.0	30	No Control 8-10	Water/Gel Water/Gel

#### 7. Auxiliary Equipment

Upper Kelly cock, full opening stabbing valve, 2 1/2" choke manifold and pit level indicator.

#### 8. Testing, Coring, Sampling and Logging:

a)	Test:	None are an	ticipated.

There is the possibility of sidewall coring. Coring: b)

Every 10' from 2000' to T.D. Sampling: c)

Interval Logging: Type d)

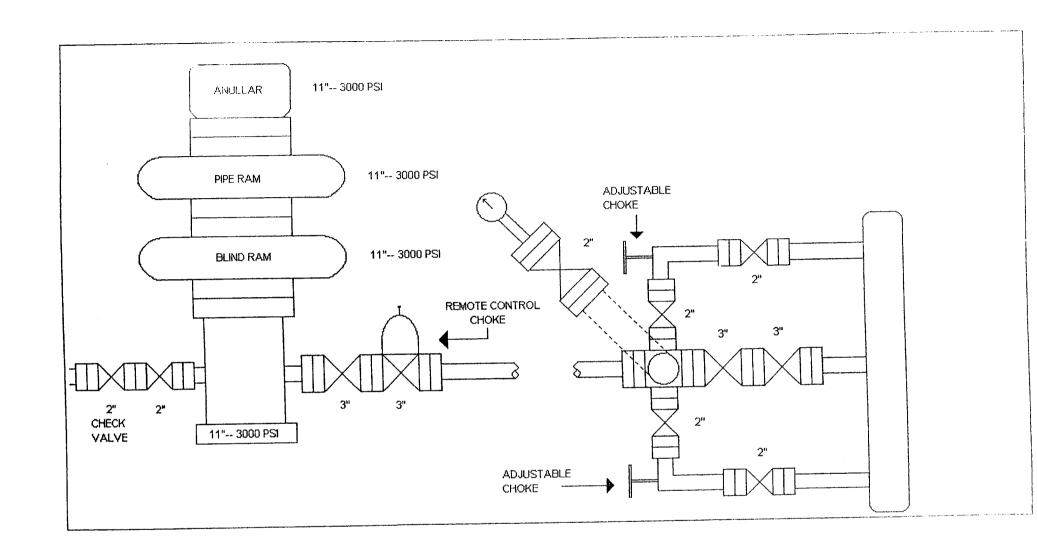
DLL/SFL W/GR and SP T.D. to Surf. Csg FDC/CNL W/GR and CAL T.D. to Surf. Csg

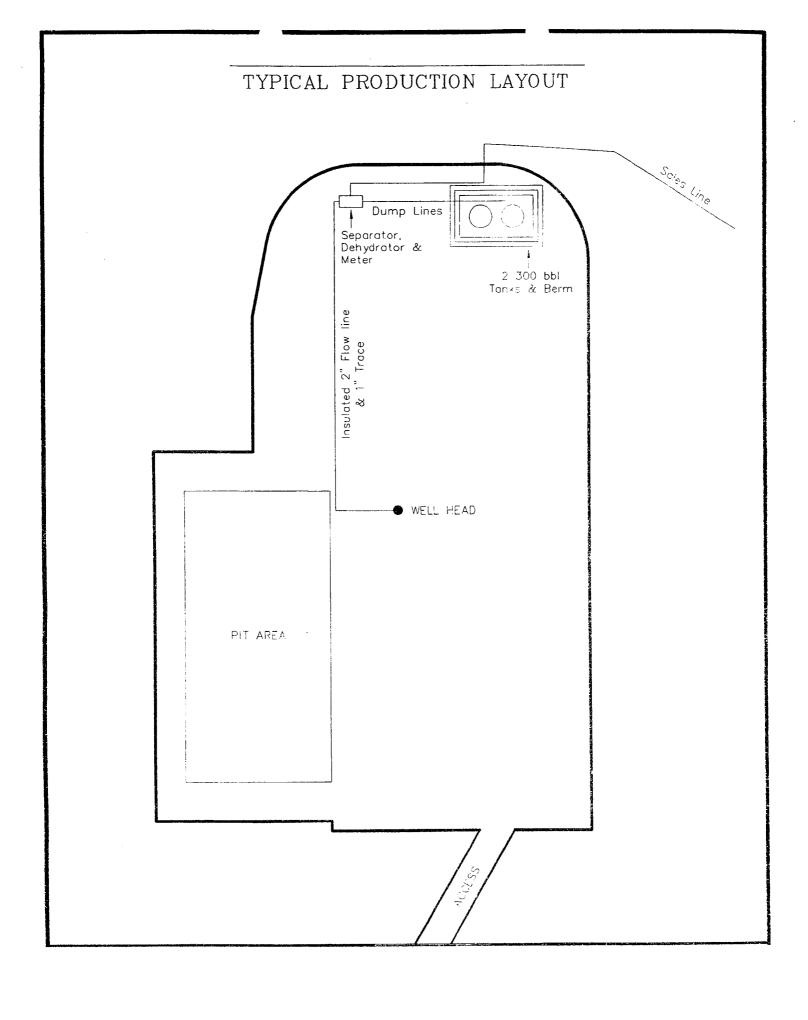
#### 9. Abnormalities (including sour gas):

No abnormal pressures, temperatures or other hazards are anticipated. Oil and gas shows are anticipated in the Wasatch Formation. Other wells drilled in the area have not encountered over pressured zones or H2S.

#### 10. Drilling Schedule:

The anticipated starting date is  $\underline{1/01/2007}$ . Duration of operations is expected to be 30 days.





# THE HOUSTON EXPLORATION COMPANY 13 POINT SURFACE USE PLAN

FOR WELL

**NORTH HORSESHOE 5-20-6-22** 

LOCATED IN SW ¼ NW ¼

**SECTION 20, T.6S, R22E, S.L.B.&M.** 

**UINTAH COUNTY, UTAH** 

**LEASE NUMBER: UTU-76768** 

SURFACE OWNERSHIP: FEDERAL

#### 1. Existing Roads:

The Houston Exploration Co. North Horseshoe 5-20-6-22 Section 20, T6S, R 22E

Starting in Vernal, Utah: Proceed in an easterly, then southerly direction from Vernal, Utah along U.S. Highway 40 approximately 3.9 miles to the junction of State Highway 45; exit right and proceed in a southerly, then southeasterly direction approximately 9.2 miles on State Highway 45 to the junction of this road and an existing road to the northwest; turn right and proceed in a northwesterly direction approximately 250' miles to the beginning of the proposed access for the 13-20-6-22 to the southeast; follow road flags in a southeasterly direction approximately 0.2 miles to the beginning of the proposed access to the southwest: follow road flags in a southwesterly direction approximately 100' to the proposed location.

#### Total distance from Vernal, Utah to the proposed well location is approximately 13.3 miles.

All existing roads to the proposed location are State of Utah, BLM maintained or County Class D roads. Please see the attached map for additional details.

#### 2. Planned access road

The proposed access road will be approximately 100' of new construction on lease. The road

#### will be graded once per year minimum and maintained.

A) Approximate length	100 ft
B) Right of Way width	30 ft
C) Running surface	18 ft
D) Surface material	Native soil
E) Maximum grade	8%
F) Fence crossing	None
G) Culvert	None
H) Turnouts	None
I) Major cuts and fills	None
J) Road Flagged	Yes
K) Access road surface	ownership
•	Federal
L) All new construction	on lease
_,	Yes

#### M) Pipe line crossing

None

Please see the attached location plat for additional details.

#### An off lease right-of-way will not be required.

All surface disturbances for the road and location will be within the lease boundary.

#### 3. Location of existing wells

The following wells are located within a one-mile radius of the location site.

A) Producing well	None
B) Water well	None
C) Abandoned well	None
D) Temp. abandoned well	None
E) Disposal well	None

F) Drilling/Permitted well North Horseshoe 1-20-6-22 North Horseshoe 3-20-6-22 North Horseshoe 7-20-6-22 North Horseshoe 11-20-6-22 North Horseshoe 13-20-6-22 North Horseshoe 7-19-6-22

G) Shut in wells

H) Injection well
None
None
None

Please see the attached map for additional details.

4. Location of tank batteries, production facilities and production gathering service lines.

All production facilities are to be contained within the proposed location site. Please see the attached plat plan for a typical gas well separator installation and well site piping.

All permanent (on site for more than six months or longer) structures constructed or installed will be painted a **Carlsbad Canyon** color. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is **Carlsbad Canyon**.

All tanks will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank in the battery. The integrity of the dike will be maintained.

The operator will adhere to all site security guidelines and regulation identified in 43 CFR 3126.7.

All off lease storage, off lease measurement, commingling on lease or off lease, of production, will have prior written approval form the authorized officer. If the well is capable of economic production a surface gas line will be required.

Approximately 76' of 3" steel buried gas gathering line would be constructed on Federal Lands. The line will tie into a proposed pipeline in Section 20, T6S, R22E. The pipeline would be buried to the northeast of the location and adjacent to the access road.

An off lease right-of-way will not be required.

Please see the attached location diagrams for pipeline location.

The gas meter run will be located within 500' of the wellhead. The gas line will be buried or anchored down from the wellhead to the meter. Meter runs will be housed and/or fenced.

The gas meter will be calibrated and the tank strapped in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The authorized officer will be provided with a date and time for the initial meter calibration and all future meterproving schedules. A copy of the meter calibration report will be submitted to the BLM's Vernal District office and State of Utah, Division of Oil, Gas, and Mining. All measurement facilities will conform to API (American Petroleum Institute) and AGA (American Gas Association)

standards for gas and liquid hydrocarbon measurement.

#### 5. Location and type of water supply

Water for drilling and cementing will come from The Green River Permit # T-76073.

#### 6. Source of construction materials

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravel or pit lining material will be obtained from private resources.

#### 7. Methods for handling waste disposal

#### A) Pit construction and liners:

The reserve pit will be approximately 12 ft. deep and most of the depth shall be below the surface of the existing ground Please see the attached plat for details.

The reserve pit will be lined.

The reserve pit will be used to store water for drilling. A semi-closed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

#### B) Produced fluids:

Produced water will be confined to the reserve pit, or if deemed necessary, a storage tank for a period not to exceed 90 days after initial production. During the 90-day period an application for approval for permanent disposal method and location will be submitted to the authorized officer. Evaporation may be used instead of trucking to facilitate closing and reclamation of the reserve pit. A pumping system would be used for evaporation.

#### C) Garbage:

A trash cage fabricated from expanded metal will be used to hold trash on location and will be removed to an authorized landfill location.

#### D) Sewage:

A portable chemical toilet will be supplied for human waste.

#### E) Site clean-up:

After the rig is moved off the location the well site area will be cleaned and all refuse removed.

#### 8. Ancillary facilities

There are no ancillary facilities planned at this time and none are foreseen for the future.

#### 9. Well-site layout

Location dimensions are as follows:

A) Pad length	345 ft.
B) Pad width	245 ft.
C) Pit depth	12 ft.
D) Pit length	150 ft.
E) Pit width	75 ft.
F) Max cut	17.9 ft.
G) Max fill	9.0 ft.
H) Total cut yds.	8,610 cu yds

J) Top soil location

I) Pit location

West end

East end

K) Access road location

North end Corner C

L) Flare Pit

Please see the attached location diagram for additional details.

All pits will be fenced according to the following minimum standards:

- A) Thirty nine inch net wire shall be used with at least one strand of wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- B) The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches above the net wire. Total height of the fence shall be at leas 42 inches.
- C) Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D) Standard steel, wood or pipe

posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 ft.

- E) All wire shall be stretched by using a stretching device before it is attached to the corner posts.
- 10. Plans for restoration of the surface

Prior to construction of the location, the top 6 inches of soil material will be stripped off the location and the pit area. The topsoil removed and piled will amount to approximately 1,680 cubic yards of material. Topsoil will be stockpiled in one distinct pile. Placement of the topsoil is noted on the attached location plat. The topsoil pile from the location will be seeded as soon as the soil is stock piled with the seed mix listed. When all drilling and completion activities have been completed and the pit back-filled the topsoil from the pit area will be spread on the pit area. The pit area will be seeded when the soil has been spread. The unused portion of the location (the area outside the dead men) will be recontoured.

The dirt contractor will be provided with an approved copy of the surface use plan prior to construction activities.

Changes to the drainage during the construction activities shall be restored to its original line of flow or as near as possible when the pit is back-filled

All disturbed areas will be recontoured to the approximate natural contours. Prior to back filling the pit the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 90 days of well completion. If the reserve pit has not dried sufficiently to allow back filling, an extension on the time requirement for back filling the pit will be requested. Once reclamation activities have begun, they shall be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rainfall and run off from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert the run off as needed.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

#### A) Seeding dates:

Seed will be spread when topsoil is stock piled and when reclamation work is performed.

The seed mix and quantity list will be used whether the seed is broadcast or drilled.

#### B) Interim Seed Mix

4#/acre Indian Rice Grass 4#/acre Crested Wheat Grass 4#/acre Needle & Thread Grass

#### 11. Surface ownership:

Access road Federal Location Federal Pipe line Federal

#### 12. Other information:

#### A) Vegetation

The vegetation coverage is slight. The majority of the existing vegetation consists of non-native species. Rabbit brush, bitter brush, and Indian Rice grass and Sagebrush are also found on the location.

#### B) Dwellings:

There are no dwellings or other facilities within a one-mile radius of the location.

#### C) Archeology:

The location has been surveyed. A copy of that survey will be forwarded to your office.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the antiquities act of June 8, 1906) are discovered, all operations, which would affect such sites, will be suspended and the discovery reported

promptly to the surface management agency.

#### D) Water:

The nearest water is the Green River located 6,500' to the Southwest.

#### E) Chemicals:

No pesticides, herbicides or other possible hazardous chemicals will be used without prior application.

#### F) Notification:

- a) Location Construction
  At least forty eight (48)
  hours prior to
  construction of location
  and access roads.
- b) Location completion prior to moving on the drilling rig.
- c) Spud notice
  At least twenty-four (24)
  hours prior to spudding
  the well.
- d) Casing string and cementing
  At least twenty-four (24) hours prior to running casing and cementing all casing strings.
- e) BOP and related equipment tests At least twenty-four (24) hours prior to initial pressure tests.
- f) First production notice Within five (5) business days after the new well begins, or production resumes after well has

been off production for more than 90 days.

#### G) Flare pit:

The flare pit will be located in corner C of the reserve pit out side the pit fences and 100 feet from the bore hole on the east side of the location. All fluids will be removed from the pit within 48 hours of occurrence.

## 13. Lessees or Operator's representative and certification

#### A) Representative

William A. Ryan Rocky Mountain Consulting 290 S 800 E Vernal, UT 84078

Office 435-789-0968 Fax 435-789-0970 Cellular 435-828-0968

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, onshore oil and gas orders, and any applicable notices to lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

This drilling permit will be valid for a period of one year from the date of approval.

After permit termination, a new

application will be filed for approval for any future operations.

#### B) Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route that I am familiar with the conditions which presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be preformed by The Houston **Exploration Company and its** contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

Onsite Dates: 2/28/06

#### **Self Certification Statement**

The following self-certification statement is provided per Federal requirements dated June 15, 1988.

Please be advised that The Houston Exploration Company is considered to be the operator of the following well:

North Horseshoe #5-20-6-22 Section 20, T. 6S, R. 22E SW ¼ of the NW ¼ Lease UTU-76768 Uintah County, Utah

The Houston Exploration Company is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond UTU-104155044 provides statewide bond coverage on all Federal Lands.

William A. Ryan, Agent Rocky Mountain Consulting

#### Statement of use of Hazardous Materials

No chemical(s) from the EPA's consolidated list of Chemicals subject to Reporting under Title III of the Superfund Amendments and Reauthorization, Act (SARA) of 1986 will be used, produced, transported, stored, disposed, or associated with the proposed action. No extremely hazardous substances, as defined in 40 cfr 355, will be used, produced, stored, transported, disposed, or associated with the proposed action.

If you require additional information please contact:

William A Ryan
Agent for The Houston Exploration Company
Rocky Mountain Consulting
290 S 800 E
Vernal, UT 84078

435-789-0968 Office 435-828-0968 Cell 435-789-0970 Fax

## THE HOUSTON EXPLORATION COMPANY

NORTH HORSESHOE #5-20-6-22

LOCATED IN UINTAH COUNTY, UTAH SECTION 20, T6S, R22E, S.L.B.&M.

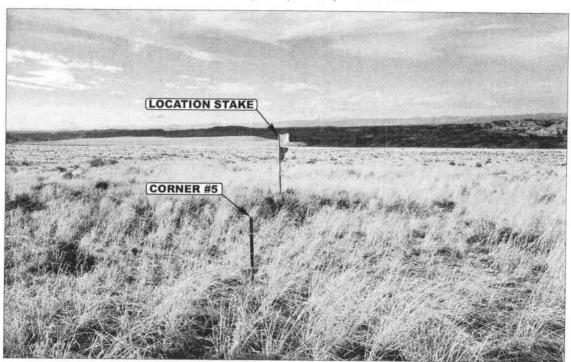


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

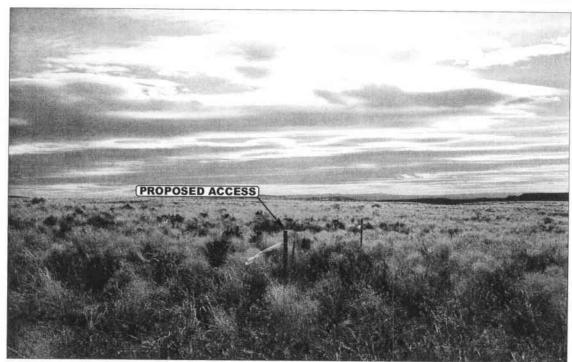


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



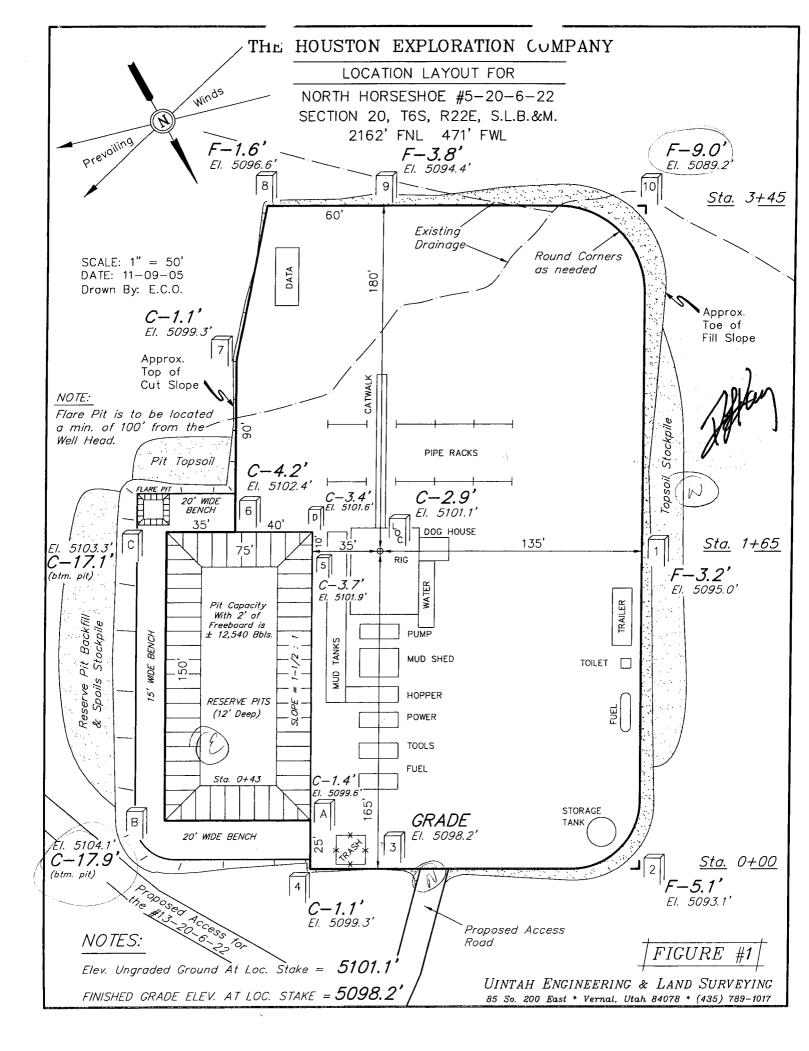
Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017 uels@uelsinc.com

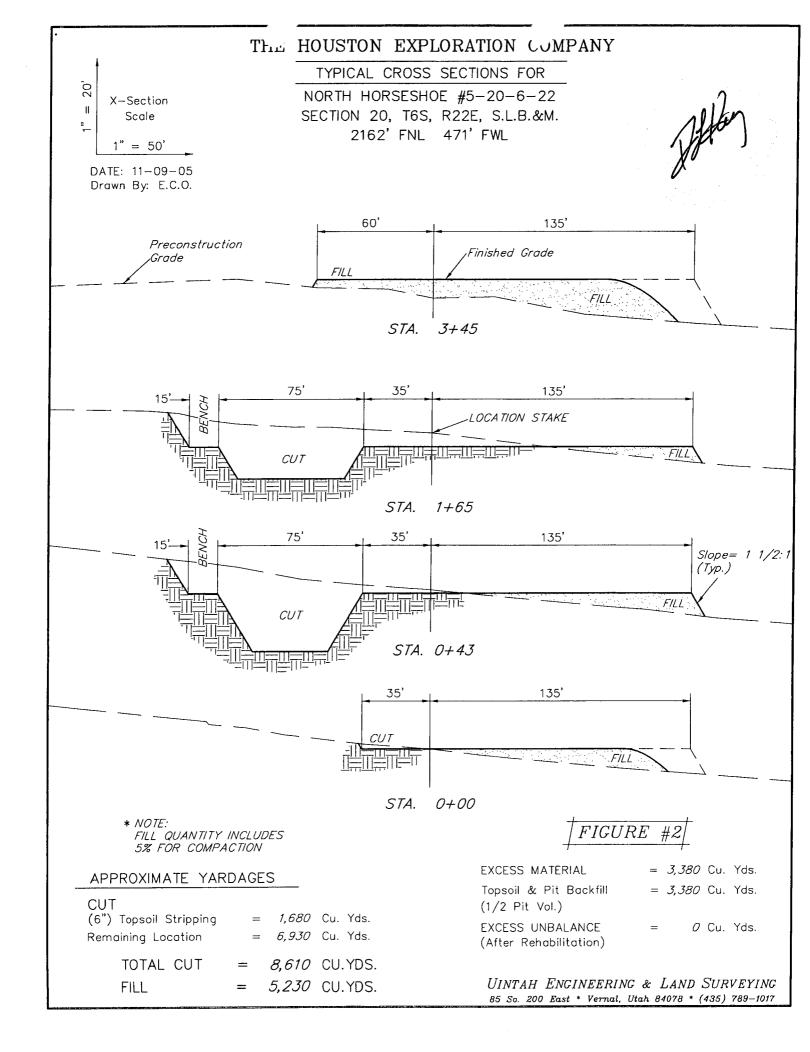
LOCATION PHOTOS

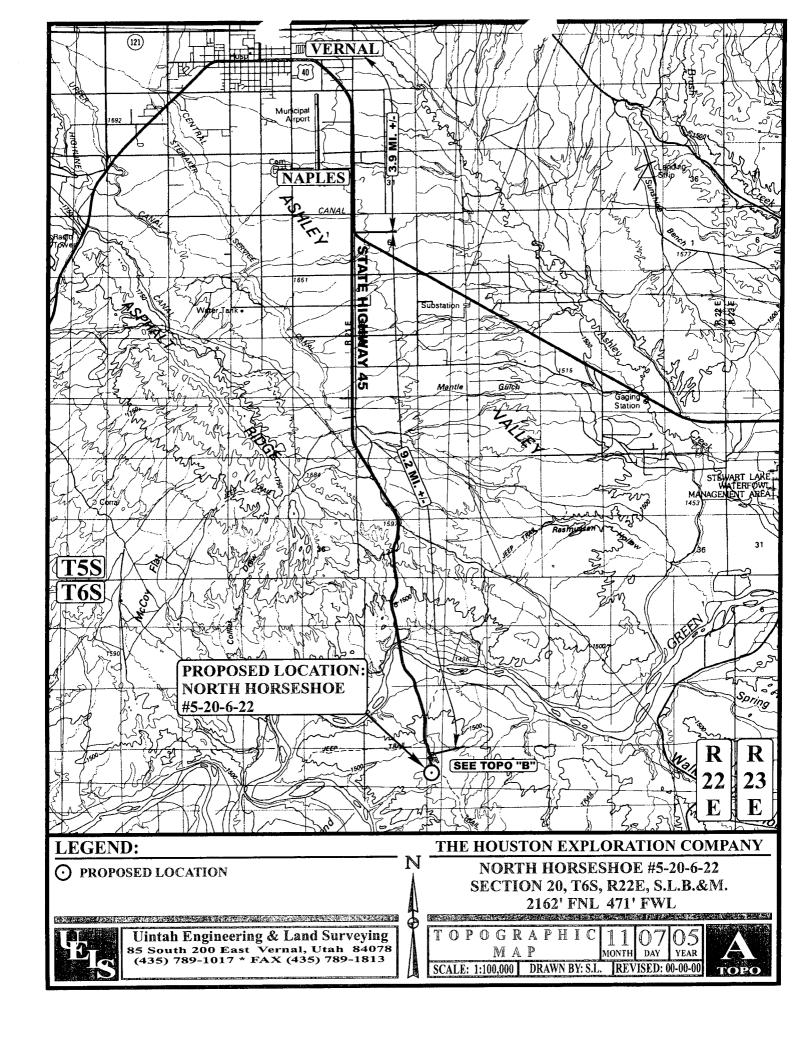
MONTH DAY YEAR

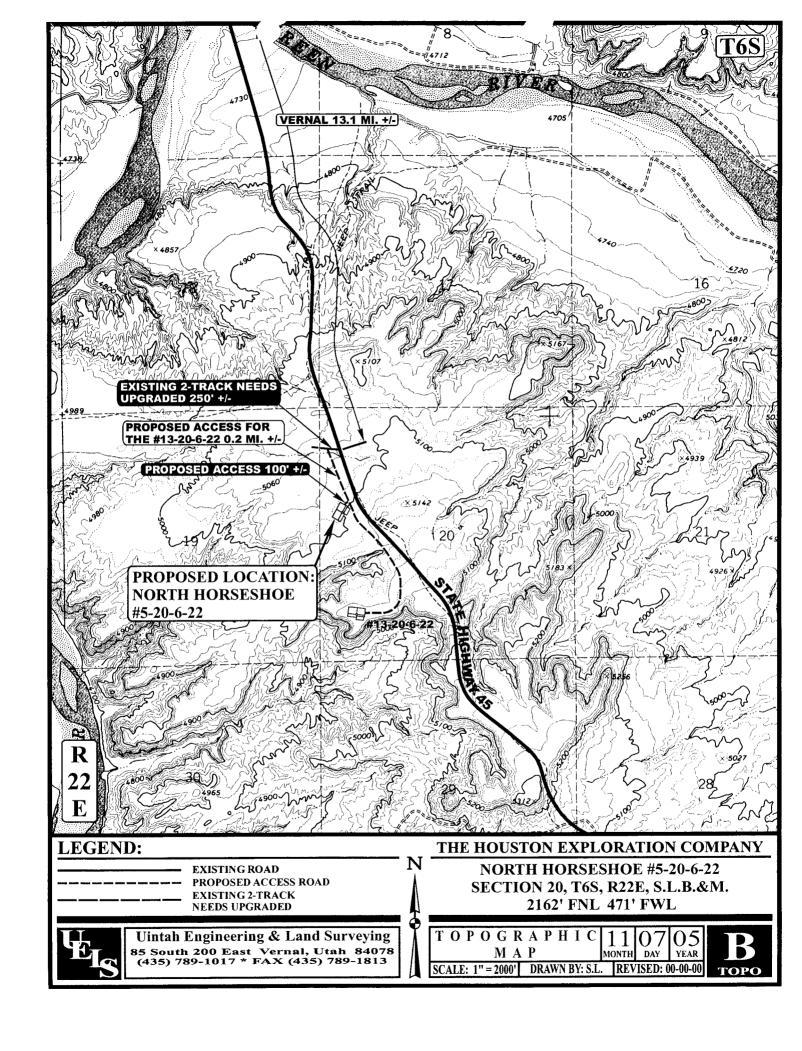
РНОТО

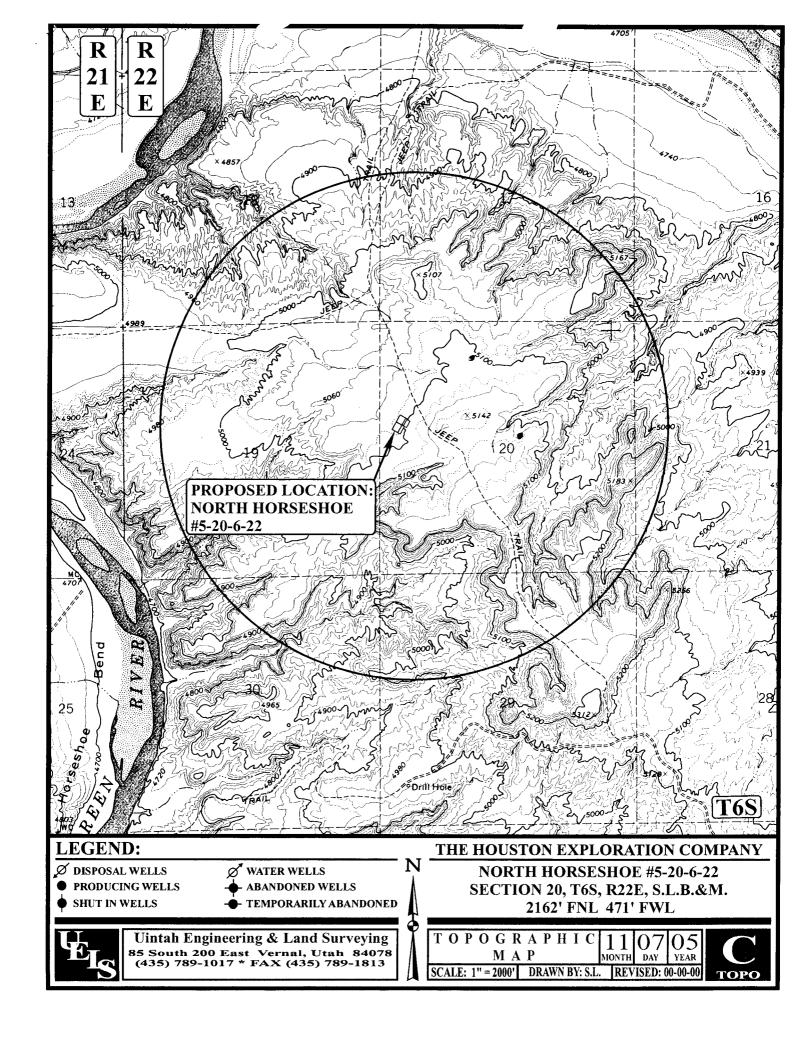
TAKEN BY: GO. | DRAWN BY: S.L. | REVISED: 00-00-00

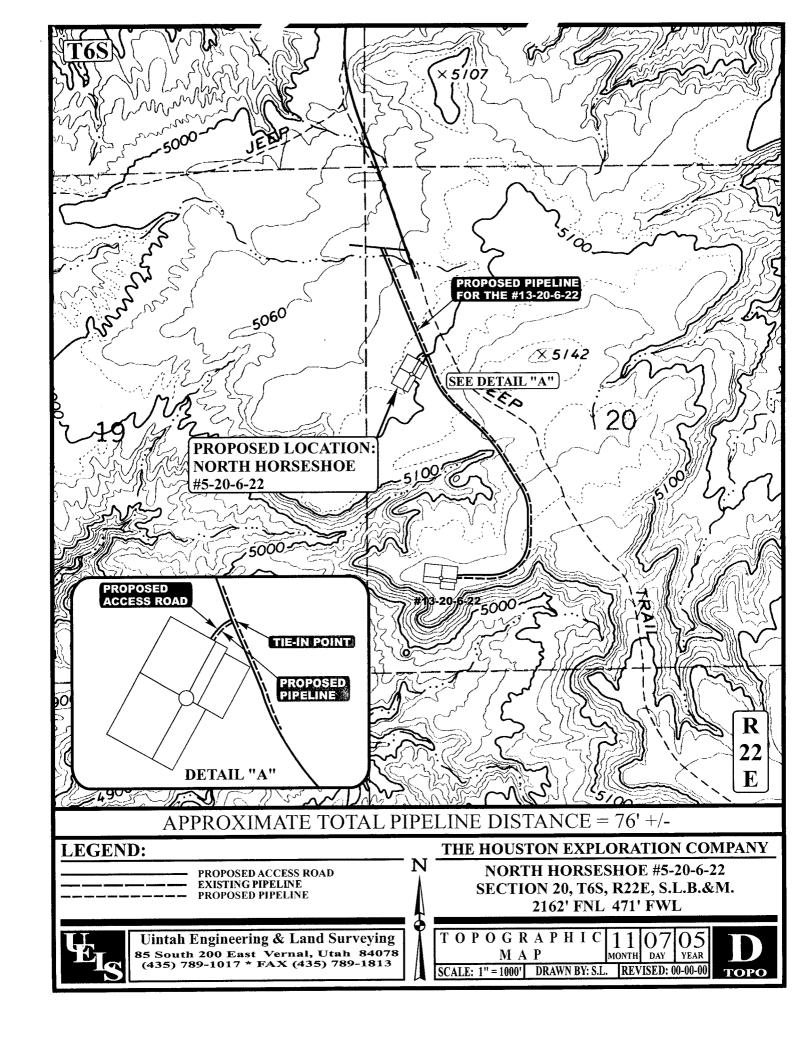


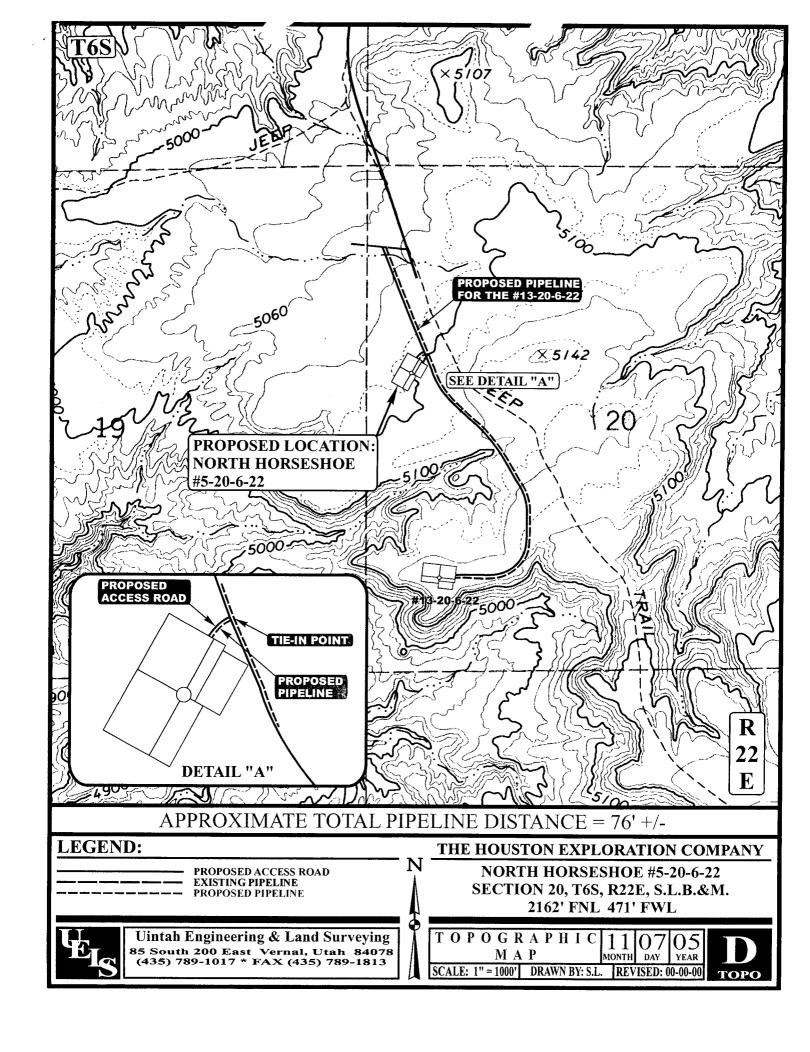












# WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/19/2006	API NO. ASSIGNED: 43-047-38019			
WELL NAME: N HORSESHOE 5-20-6-22  OPERATOR: HOUSTON EXPLORATION CO, ( N2525 )  CONTACT: BILL RYAN	PHONE NUMBER: 435-789-0968			
PROPOSED LOCATION:	INSPECT LOCATN BY: / /			
SWNW 20 060S 220E SURFACE: 2162 FNL 0471 FWL	Tech Review Initials Date			
BOTTOM: 2162 FNL 0471 FWL	Engineering			
COUNTY: UINTAH	Geology			
LATITUDE: 40.28621 LONGITUDE: -109.4739  UTM SURF EASTINGS: 629732 NORTHINGS: 446043	2 Surface			
FIELD NAME: WILDCAT ( 1 )  LEASE TYPE: 1 - Federal  LEASE NUMBER: UTU-76768  SURFACE OWNER: 1 - Federal	PROPOSED FORMATION: MVRD COALBED METHANE WELL? NO			
Plat  Bond: Fed[1] Ind[] Sta[] Fee[]  (No. UTU-104155044 )  Potash (Y/N)  Oil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. T-76073 )  RDCC Review (Y/N)  (Date: )  ALA Fee Surf Agreement (Y/N)  ALA Intent to Commingle (Y/N)	LOCATION AND SITING:  R649-2-3.  Unit:  R649-3-2. General Siting: 460 From Qtr/Qtr & 920' Between Wells R649-3-3. Exception  Drilling Unit Board Cause No: Eff Date: Siting:  R649-3-11. Directional Drill			
STIPULATIONS: 1- Laine approx of J-Spacing Ship				

N HORSESHOE 16-18-6-22

**T6S R22E** 

N HORSESHOE 3-20-6-22 \*

N HORSESHOE 5-20-6-22

N HORSESHOE

20

N HORSESHOE II-20-6-22 🌸

N HORSESHOE 13-20-6-22 (\*)

OPERATOR: THE HOUSTON EXPL CO (N2525)

SEC: 20 T. 6S R. 22E

FIELD: WILDCAT (001)

COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING

Field Status

ABANDONED

ACTIVE

COMBINED

INACTIVE

PROPOSED

STORAGE

TERMINATED

Unit Status

EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PENDING
PI OIL
PP GAS
PP GEOTHERML
PP OIL

SECONDARY

TERMINATED

Wells Status

GAS INJECTION
GAS STORAGE
LOCATION ABANDONED
NEW LOCATION
PLUGGED & ABANDONED
PRODUCING GAS
PRODUCING OIL
SHUT-IN GAS
SHUT-IN OIL
TEMP. ABANDONED
TEST WELL
WATER INJECTION
WATER SUPPLY

WATER DISPOSAL

DRILLING

PREPARED BY: DIANA WHITNEY DATE: 24-APRIL-2006



#### State of Utah

# Department of Natural Resources

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA Division Director JON M. HUNTSMAN, JR. Governor

GARY R. HERBERT Lieutenant Governor

April 25, 2006

The Houston Exploration Company 1100 Louisiana, Suite 2000 Houston, TX 77002

Re: North Horseshoe 5-20-6-22 Well, 2162' FNL, 471' FWL, SW NW, Sec. 20,

T. 6 South, R. 22 East, Uintah County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38019.

Sincerely,

Gil Hunt

**Associate Director** 

Sight

mf

**Enclosures** 

cc:

**Uintah County Assessor** 

Bureau of Land Management, Vernal District Office

Operator: The Houston Exploration Company			
Well Name & Number North Horseshoe 5-20-6-22			
API Number:	43-047-38019		
Lease:	UTU-7	6768	
Location: <u>SW NW</u>	Sec20_	T. 6 South	R. 22 East

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dan Jarvis at (801) 538-5338

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

## **Ten Point Plan**

**The Houston Exploration Company** 

North Horseshoe 5-20-6-22

Surface Location SW 1/4 NW 1/4,

Section 20, T. 6S., R. 22E.

43-047-38019

## 1. Surface Formation Uintah

#### 2. Estimated Formation Tops and Datum:

Formation		Depth	Datum
Uintah		Surface	5,098'G.R.
Green River		3,800'	1,298'
Birds Nest	Water	4,000'	1,098'
Wasatch	Oil/Gas	6,900'	-1,802'
Mesaverde	Oil/Gas	10,000'	-4,902'
TD		10,500'	-5,402'

A 17 ½" hole will be drilled to 4,000' +/-. The hole depth will depend on the depth that the Birds Nest Zone is encountered. The hole will be drilled 400' beyond the top of the Birds Nest. All fresh water and oil and gas baring zones shall be protected by casing and cement program.

#### 3. Producing Formation Depth:

Formation objective includes the Wasatch, Mesaverde and their sub-members.

#### 4. Proposed Casing:

Hole	e Casing			Coupling	Casing	
Size	e Size	Weight/FT	<u>Grade</u>	<u>&amp; Tread</u>	<u>Depth</u>	New/Used
30	26	68.75#	A430		40'	NEW
24	20	94#	H-40	ST&C	350'	NEW
17 ½	/2 13 3/8	72#	N-80	ST&C	4,000'	NEW
12 ½	<b>/</b> <sub>4</sub> <b>9</b> 5/8	53.5#	N-80	LT&C	6,900'	NEW
7 7/8	3 4 ½	11.6#	P-110	LT&C	9,400'	NEW
7 7/8	3 4 ½	13.5#	P-110	LT&C	10,500'	NEW

#### **Cement Program:**

#### Conductor casing #1 will be cemented as follows from 0'-40':

Note: Cement Volume = Gauge hole + 50%

	Casing <u>Size</u>	Cement <u>Type</u>	Cement Amounts	Cement <u>Yield</u>	Water <u>Mix</u>	Cement <u>Weight</u>
Lead:	26	Portland CMT Class IA 4 Integral Air-entraining	42 sks +/-	1.15ft³/sk	5	15.8 ppg

Conductor	casing #2	will be cemented	as follows	from 0'- 350':

		<u>ng #2 will be cemen</u>		<u>from 0'- 35(</u>	<u>)':</u>	
Cemei	nt volume	e = Gauge hole + 50°				
(	Casing	Cement	Cement	Cement	Water	Cement
	<u>Size</u>	<u>Type</u>	<u>Amounts</u>	<u>Yield</u>	<u>Mix</u>	<u>Weight</u>
Lead:			· · · ·	1 503/1	_	1.7.0
	20	Portland CMT	247 sks +/-	1.5ft³/sk	5	15.8 ppg
		Class "G" 2% Calcium Chloride				
		1/4#/sk Flocele				
The S	urface Ca	sing will be cement	ed as follows:	<u>from 0'- 4,00</u>	<u>)0':</u>	
Ceme	nt volume	e = Gauge hole + 25	%			
	Casing	Cement	Cement	Cement	Water	Cement
	<u>Size</u>	<u>Type</u>	<b>Amounts</b>	<u>Yield</u>	<u>Mix</u>	<u>Weight</u>
Lead:						
	13 3/8"		855 sks. +/-	3.82ft <sup>3</sup> /sk	23	11.0 ppg
		16% Gel 10#/sk Gilsonite				
		3% Salt				
		3#/sk GB3				
Tail:						
	13 3/8"	Class "G"	294 sks. +/-	1.18ft³/sk	5	15.6 ppg
		2% Calcium Chlorid 0.25#/sk Flocele	e			
Top Jo	sh·	0.25#/SK Flocele				
Top Jo		Class "G" 1	0-200 sks. +/-	1 15ft³/sk	5	15.8 ppg
		4% Calcium Chlorid		1.1010 / 511	J	544 PFS
		0.25#sk Flocele				
		asing will be cemen		<u>from 3,800'-</u>	<u>- 6,900':</u>	
Ceme		e = Gauge hole + 25		<b>G</b>	***	
	Casing	Cement	Cement	Cement	Water	Cement
	<u>Size</u>	<u>Type</u>	<u>Amounts</u>	<u>Yield</u>	<u>Mix</u>	Weight
т. 1						
Lead:	0. = (0)?	50/50 POZ'G	955 sks +/-	1.25ft³/sk	5.26	14.35 ppg
	9 5/8"	5% Salt (BWOW)	933 SKS T/-	1.231t /SK	5.20	14.55 ррв
		0.6% HALAD 322				
		0.25#/sk Flowcele				
		0.2% Super CBL				
		2% Micro Bond				

#### Production casing will be cemented as follows from 6,700'- 10,500:

Note: Lead should be 200' above the Wasatch.

**Cement volume = Gauge hole + 25%** 

Casing Depth	Casing Size	Cement <u>Type</u>	Cement Amounts	Cement Yield	Water Mix	Cement Weight
<u>юрин</u>	SILO	<u> </u>				
Lead:						
	$4\frac{1}{2}$	PREM.AG300	634 sks +/-	1.73ft³/sk	8.17	13.5 ppg
		50/50 POZ "G" CM	T			
		2% Gel				
		0.4% Halad 344				
		0.25% HR-12				
		0.2% CFR-3				
		5#/sk Sillicalite				
		20% SSA-1				
		0.25#/sk Flowcele				
		0.2% Super CBL				

#### 5. BOP and Pressure Containment Data:

A 5000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 13 3/8" surface casing. An upper kelly cock to the required pressure rating with a handle available shall be employed.

The BOP system including the casing will be pressure tested to minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

#### 6. Mud Program:

Interval	Mud weight lbs./gal.	Viscosity Sec./OT.	Fluid Loss MI/30 Mins.	Mud Type
0-2000 4,000-T.D.	Air/Clear Water 8.4-12.0	30-45	No Control 8-10	Water/Gel LSND water based mud system

**Note:** Mud weights may exceed 12.0 due to solids increasing at or near T.D. Increased weights are not required to control formation pressure. Operator will have on location sufficient mud and weight material to increase mud weight to 12.0 at any time while drilling the subject well. Visual mud monitoring incorporating pit level indicators shall be used.

#### 7. Testing, Coring, Sampling and Logging:

DST: a)

None are anticipated.

b) Coring: There is the possibility of sidewall coring.

c)

Mud Sampling: Every 10' from 4,000' to T.D.

d) Logging: Type

Interval

DLL/SFL W/GR and SP

T.D. to Surf. Csg

FDC/CNL W/GR and CAL T.D. to Surf. Csg

#### 8. Abnormalities (including sour gas)

Anticipated bottom hole pressure will be less than 5000 psi. No abnormal pressures, temperatures or other hazards are anticipated. Other wells drilled in the area have not encountered over pressured zones or H2S.

#### 9. Other facets of the proposed operation:

Off set well information None

#### 10. Drilling Schedule:

The anticipated starting date is  $\frac{1/01/2007}{}$ . Duration of operations is expected to be 30 days.

## STATE OF UTAH

	DEPARTMENT OF NATURAL RESOUR	RCES	I ONW 9
!	DIVISION OF OIL, GAS AND MIN	NING	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-76768
SUNDRY	NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill n drill horizontal la	new wells, significantly deepen existing wells below curricaterals. Use APPLICATION FOR PERMIT TO DRILL fo	ent bottom-hole depth, reenter plugged wells, or to	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL			8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:			North Horseshoe 5-20-6-22
The Houston Exploration (	Company		9. API NUMBER: 4304738019
3. ADDRESS OF OPERATOR: 1100 Louisiana Suite 2000	Houston STATE TX ZIP	77002 PHONE NUMBER: (713) 830-6800	10. FIELD AND POOL, OR WLDCAT: Undesignated
4. LOCATION OF WELL	STATE 17 ZIP	(713) 830-0800	Officesignated
FOOTAGES AT SURFACE: 2162'	FNL & 471' FWL		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RAN	GE, MERIDIAN: SWNW 20 6S 2	2E	STATE: UTAH
11. CHECK APP	ROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	OTHER: Extension
12. DESCRIBE PROPOSED OR CO	DMPLETED OPERATIONS. Clearly show all po		
			s, etc.
Operator respectfully requ	lests to extend approval for the su	ibject location for one year.	
		Approved by the	
		Utah Division of	
	C	Oil, Gas and Mining	
	Date	· 84-11-02-1	
	Date	- C- C- PTT	
	By:	A. W. Cally	
	<b></b> , .	- Consideration	AND TO CHERALDR
		7	Story graph and the state of th
NAME (PLEASE PRINT) William A.	Bvan	<sub>TITLE</sub> Agent	
NAME (PLEASE PRINT) VIIII A.		TITLE Agent	
SIGNATURE Willow	a Tree	DATE 4/11/2007	

(This space for State use only)

**RECEIVED** APR 1 3 2007

#### Application for Permit to Drill Request for Permit Extension Validation

(this form should accompany the Sundry Notice requesting permit extension)

	A304738019  North Horseshoe 5- Section 20, Townsh mit Issued to: Permit Issued:	ip 6 South, Range 22 East S The Houston Exploration	SWNW Company	
above, hereby	verifies that the	n legal rights to drill or information as submit mains valid and does	n the property as permitted ted in the previously not require revision.	
Following is a verified.	checklist of some	e items related to the	application, which should be	2
	rivate land, has t en updated? Yes		d, if so, has the surface	
Have any wells the spacing or	s been drilled in t siting requireme	the vicinity of the prop nts for this location? Y	osed well which would affec ′es⊟ No⊠	;t
Has there beer permitting or op	n any unit or othe peration of this p	er agreements put in p roposed well? Yes⊡I	lace that could affect the No⊠	
		to the access route inc proposed location? Ye	cluding ownership, or right- s□No☑	
Has the approv	ed source of wa	ter for drilling changed	d? Yes□No☑	
Have there bee which will requi evaluation? Yes	re a change in p	hanges to the surface lans from what was di	e location or access route scussed at the onsite	
Is bonding still	in place, which c	overs this proposed w	/ell? Yes⊠No□	
<u>William</u> Signature	wa Ryo	<u></u>	4/11/2007 Date	
Title: Agent	-	<del></del>		
Representing:	The Houston Explo	ration Company	RECEIV	/E1
			HEUEIV	/ I I

RECEIVED APR 1 3 2007

#### Division of Oil, Gas and Mining

#### **OPERATOR CHANGE WORKSHEET**

ROUTING

1. DJJ

2. CDW

								2. CDW
Change of Operator (Well Solo	1)			X	K - Operato	r Merger		
The operator of the well(s) listed below	has changed	, effecti	ive:	į.		6/1/2007		
FROM: (Old Operator):	······································			TO: (New	Operator):	-i		
N2525 - The Houston Exploration Compa	any				st Oil Corpora	ation		
1100 Louisiana, Suite 2000				707 1	7th St, Suite	3600		
Houston, TX 77002				Denv	er, CO 80202	<u> </u>		
Phone: 1-(713) 830-6800				Phone: 1 (30	3) 812-1755			
	CA No.			Unit:	<del></del>			
WELL NAME	SE	C TW.	N RNG	API NO	ENTITY	LEASE	WELL	WELL
					NO	TYPE	TYPE	STATUS
SEE ATTACHED LIST								
OPERATOR CHANGES TO CH	TH. #TWENT VICEN							
OPERATOR CHANGES DOCU		ION						
Enter date after each listed item is com			C .1	EODMED		= /0.0 /0.00	_	
1. (R649-8-10) Sundry or legal docume.						7/30/200	_	
2. (R649-8-10) Sundry or legal docume				-		7/30/200		
3. The new company was checked on th			mmerce		=			7/31/2007
4a. Is the new operator registered in the		:		Business Nur	mber:	571171-014	3	
4b. If <b>NO</b> , the operator was contacted co								
5a. (R649-9-2)Waste Management Plan h	as been receiv	ed on:		IN PLACE				
5b. Inspections of LA PA state/fee well s	ites complete	on:			<del></del>			
5c. Reports current for Production/Dispos	sition & Sund	ries on:	:	YES				
6. Federal and Indian Lease Wells	: The BLM a	nd or th	he BIA h	as approved t	— he merger, na	me change.		•
or operator change for all wells listed					BLM	7/31/200	7 BIA	Ť.
7. Federal and Indian Units:						- "31,200	,	-
The BLM or BIA has approved the	successor of	ınit ope	erator for	wells listed o	n:	n/a		
8. Federal and Indian Communiza								
The BLM or BIA has approved the					:	n/a		
9. Underground Injection Control				vision has app			– sfer of Au	thority to
Inject, for the enhanced/secondary re	covery unit/pi	oject fo	or the wa	iter disposal w	vell(s) listed o	n:	n/a	-
DATA ENTRY:	•			•	· /			-
1. Changes entered in the Oil and Gas I	Database on:			8/27/2007				
2. Changes have been entered on the Mo	onthly Opera	tor Ch	ange Sp		<u>-</u>	8/27/2007		
3. Bond information entered in RBDMS				8/27/2007			-	
4. Fee/State wells attached to bond in R				8/27/2007				
5. Injection Projects to new operator in 1				n/a				
6. Receipt of Acceptance of Drilling Pro	cedures for A	PD/Ne	w on:		7/30/2007			
BOND VERIFICATION:	4							
1. Federal well(s) covered by Bond Num				6236351				
2. Indian well(s) covered by Bond Numl 3a. (R649-3-1) The <b>NEW</b> operator of ar		1:_4_ 3		n/a	<del></del>	(0100/0		
3a. (R649-3-1) The <b>NEW</b> operator of ar	iy icc well(s)	ustea c	overea b	y bona numt	)CI	6218963		

#### LEASE INTEREST OWNER NOTIFICATION:

3b. The **FORMER** operator has requested a release of liability from their bond on:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on:

8/1/2007

**COMMENTS:** 

not yet

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

DEL ANTINIENT OF NATURAL RESOURCES	
DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached List
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to	7. UNIT or CA AGREEMENT NAME:
drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  1. TYPE OF WELL	WELL NAME and NUMBER:
OIL WELL GAS WELL OTHER	See Attached List
2. NAME OF OPERATOR: Forest Oil Corporation N6965	9. API NUMBER: Various
3. ADDRESS OF OPERATOR: PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:
707 17th Street, #3600 CITY Denver, STATE CO ZIP 80202 (303) 812-1755  4. LOCATION OF WELL	
FOOTAGES AT SURFACE: See attached list	COUNTY:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:	STATE:
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	UTAH
TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF ACTION	OR OTHER DATA
ACIDIZE DEEPEN	REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)  ALTER CASING  FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
(Submit Original Form Only)  Date of work completion:  CHANGE WELL STATUS  PRODUCTION (START/RESUME)	WATER SHUT-OFF
COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	✓ отн∈к: Change of Operator
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	
	Company, a copy of the merger y Enduring. s and restrictions concerning 6218963.
NAME (PLEASE PRINT) Joanne C. Hresko TITLE Vice President &	General Mgr Northern Division
SIGNATURE Jame C. Sheshin DATE 7-5.07	,
This space for State use only)	APN or New
APPROVED 8137107 All wells with status	DEOCRACE
Calledon	RECEIVED
5/2000) Olller Cussell (See Instructions on Reverse Side) Division of Oil, Gas and Mining	JUL 3 0 2007
Earlene Russell, Engineering Technician	DIN UEUII CVO & MINIMO

DIN UE UII CVC & MINIMO

well name	sec	twp r	ng	api	entity	lease	well	stat	flag
HORSESHOE BEND 16-33	33			4304736214		Federal	OW	APD	
HORSESHOE BEND 3-33	33			4304736215		Federal	ow	APD	
N HORSESHOE 7-16-6-21	16			4304737438		State	GW	APD	С
N HORSESHOE 9-16-6-21	16			4304737439		State	GW	APD	C
N HORSESHOE 15-16-6-21	16			4304737440	<u> </u>	State	GW	APD	Č
N HORSESHOE 11-16-6-21	16			4304737441	<u> </u>	State	GW	APD	C
N HORSESHOE 1-16-6-21	16	<del>                                     </del>		4304737442	<u> </u>	State	GW	APD	C
N HORSESHOE 13-2-6-21	02			4304737476		State	GW	APD	C
N HORSESHOE 15-2-6-21	02			4304737477		State	GW	APD	C
GUSHER 2-2-6-19	02			4304737561		State	OW	APD	C
GUSHER 16-2-6-19	02			4304737562		State	OW	APD	C
GUSHER 1-2-6-19	02			4304737563		State	OW	APD	C
GUSHER 3-2-6-19	02			4304737568		State	OW	APD	C
E COYOTE 6-2-8-25	02			4304737572		State	GW	APD	C
E COYOTE 3-2-8-25	02			4304737573		State	GW	APD	C
E COYOTE 8-2-8-25	02		_	4304737574		State	GW	APD	C
N HORSESHOE 13-16-6-21	16			4304737575		State	GW	APD	C
E COYOTE 4-2-8-25	02			4304737882	<del> </del>	State	GW	APD	C
E COYOTE 14-2-8-25	02			4304737883		State	GW	APD	C
E COYOTE 10-2-8-25	02	<u> </u>		4304737884		State	GW	APD	C
E COYOTE 16-2-8-25	02			4304737885	<u> </u>	State	GW	APD	C
E COYOTE 12-2-8-25	02			4304737886	<u> </u>	State	GW	APD	C
N HORSESHOE 16-18-6-22	18			4304737887	<del>                                     </del>	Federal	GW	APD	C
N HORSESHOE 14-18-6-22	18			4304737888	<del></del>	Federal	GW	APD	C
N HORSESHOE 2-18-6-22	18			4304737889		Federal	GW	APD	C
N HORSESHOE 10-18-6-22	18			4304737890		Federal	GW	APD	C
N HORSESHOE 8-18-6-22	18			4304737891	<u> </u>	Federal	GW	APD	C
N HORSESHOE 13-15-6-21	15		_	4304738013		Federal	GW	APD	C
N HORSESHOE 15-15-6-21	15			4304738014		Federal	GW	APD	C
N HORSESHOE 11-15-6-21	15			4304738015		Federal	GW	APD	C
N HORSESHOE 9-15-6-21	15			4304738016		Federal		APD	C
N HORSESHOE 5-15-6-21				4304738017		Federal			C
N HORSESHOE 3-15-6-21	15			4304738018		Federal			C
N HORSESHOE 5-20-6-22	20	<del> </del>		4304738019		Federal			C
N HORSESHOE 13-20-6-22	20			4304738020		Federal			C
N HORSESHOE 3-20-6-22	20	<del> </del>		4304738021		Federal			C
N HORSESHOE 7-20-6-22	20			4304738022	1	-		APD	C
N HORSESHOE 11-20-6-22	20			4304738023				APD	C
N HORSESHOE 2-12-6-21	12			4304738198			GW	APD	C
N HORSESHOE 14-12-6-21	12			4304738199		Federal	-	APD	C
N HORSESHOE 10-12-6-21	12			4304738200				APD	C
N HORSESHOE 8-12-6-21	12			4304738201				APD	C
N HORSESHOE 16-13-6-21	13			4304738202				APD	C
N HORSESHOE 15-17-6-22	17			4304738203		Federal		APD	C
N HORSESHOE 5-19-6-22	19			4304738204			GW	APD	C
N HORSESHOE 15-19-6-22	19			4304738205		Federal			C
N HORSESHOE 3-21-6-22	21			4304738206			GW	APD	C
N HORSESHOE 11-21-6-22	21			4304738207		Federal		APD	C
N HORSESHOE 15-21-6-22	21			4304738208			GW	APD	C
N HORSESHOE 13-21-6-22	21			4304738209			GW	APD	C
N HORSESHOE 5-21-6-22	21			4304738210	<b></b>	-	GW	APD	C
N HORSESHOE 7-19-6-22	19			4304738271	<b></b>			APD	C
N HORSESHOE 5-16-6-22	16			4304738406	<b> </b>	State		APD	Ť
11110101010101010	1,,	0000 2	~~~	.201720400	<u> </u>	State	<u> </u>	<u> </u>	ь

well name	sec	twn	rng	api	entity	lease	well	stat	flag
TWELVEMILE WASH 11-13-5-20	13	twp	rng	4304738437	Cillity	Federal	GW	APD	С
TWELVEMILE WASH 1-15-5-20	15			4304738438		Federal	GW	APD	C
N HORSESHOE 4-33-5-21	33			4304738439		Federal	GW	APD	C
GUSHER 6-15-6-19	15			4304738440		Federal	GW	APD	C
HORSESHOE BEND W 9-34-6-20	34			4304738441		Federal	GW	APD	C
N HORSESHOE 16-12-6-21	12			4304738442		Federal	GW	APD	$\frac{c}{c}$
N WALKER HOLLOW 12-29-6-23	29			4304738443		Federal	GW	APD	C
N WALKER HOLLOW 10-30-6-23	30			4304738444		Federal	GW	APD	C
PELICAN LAKE 11-3-8-20	03			4304738445		Federal	GW	APD	$\frac{C}{C}$
PELICAN LAKE 8-4-8-20	04			4304738446		Federal	GW	APD	C
E COYOTE 10-3-8-25	03			4304738447		Federal	GW	APD	C
BORDER 10-9-8-25	09			4304738448	<del></del>	Federal	GW	APD	C
N WALKER HOLLOW 14-33-6-23	33			4304738455	<u> </u>	Federal	GW	APD	C
SNAKE JOHN WASH 14-11-7-25	11			4304738456		Federal	GW	APD	$\frac{c}{c}$
SNAKE JOHN WASH 14-11-7-25	24			4304738457		Federal	GW	APD	C
SQUAW RIDGE 1-26-7-25	26			4304738458			GW	APD	C
SQUAW RIDGE 13-28-7-25	28			4304738459		Federal	GW	APD	C
SQUAW RIDGE 15-28-7-25	30			4304738460	<b></b>	Federal	GW	APD	С
SQUAW RIDGE 16-30-7-25	16			4304738461		State	GW	APD	C
GUSHER 13-11-5-19	11	050S		4304738462	<b></b>	State	GW	APD	C
N HORSESHOE 1-15-6-21	15			4304738831		Federal	GW	APD	C
N HORSESHOE 16-9-6-22	09			4304739083		State	GW	APD	$\vdash$
N HORSESHOE 12-7-6-22	07			4304739083		State	GW	APD	<del> </del>
N HORSESHOE 14-10-6-22	10			4304739084					<del>                                     </del>
N HORSESHOE 2-15-6-22	15			4304739085		State	GW	APD	
N WALKER HOLLOW 12-32-6-23	32			4304739086		State	GW	APD	ļ
N WALKER HOLLOW 12-32-0-23						State	GW	APD	ļ
N WALKER HOLLOW 10-32-0-23 N WALKER HOLLOW 16-32-6-23	32			4304739088		State	GW	APD	<u> </u>
N WALKER HOLLOW 10-32-0-23	32			4304739089		State	GW	APD	
N WALKER HOLLOW 8-32-6-23	32			4304739090		State	GW	APD	<u> </u>
N WALKER HOLLOW 11-36-6-23	36			4304739091		State	GW	APD	ļ
N WALKER HOLLOW 14-32-6-23	36 32			4304739092 4304739093		State	GW	APD	<u> </u>
	+					State		APD	
N WALKER HOLLOW 15-36-6-23	36			4304739094		State		APD	ļ
N HORSESHOE 4-15-6-22 N HORSESHOE 9-10-6-21	15	_		4304739095		State		APD	
	10			4304739284					С
N HORSESHOE 12-13-6-21 N HORSESHOE 7-15-6-21	13			4304739285				APD	
	15			4304739286		Federal			
N HORSESHOE 9-19-6-22	19			4304739287		_		APD	
N HORSESHOE 13-19-6-22	19			4304739288				APD	
N HORSESHOE 11-19-6-22	19			4304739289				APD	
SQUAW RIDGE 16-13-7-24	13			4304739319		_		APD	C
N HORSESHOE 16-7-6-22	07			4304739320		Federal		APD	C
SQUAW RIDGE 8-16-7-25	16	1070S	250E	4304738024		State	GW	NEW	C

#### STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

#### Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	N Horseshoe 5-20-6-22			
API number:	4304738019			
Location:	Qtr-Qtr: SWNW Section: 20 Township: 6S Range: 22E			
Company that filed original application:	The Houston Exploration Company			
Date original permit was issued:	04/25/2006			
Company that permit was issued to:	The Houston Exploration Company			

Check one	Desired Action:				
	Transfer pending (unapproved) Application for Permit to Drill to new operator				
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.				
<b>√</b>	Transfer approved Application for Permit to Drill to new operator				
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.				

Following is a checklist of some items related to the application, which should be verified.		No
If located on private land, has the ownership changed?		<b>√</b>
If so, has the surface agreement been updated?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		✓
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		✓
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		<b>√</b>
Has the approved source of water for drilling changed?		1
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		✓
Is bonding still in place, which covers this proposed well? Bond No. 6218963	<b>√</b>	

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Tami Hofmann	Title Regulatory Specialist
Signature Sami Domany	Date 08/02/2007
Representing (company name) Forest Oil Corporation	

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OU. CAS AND MINING

	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-76768					
SUNDRY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
Do not use this form for proposals to drill n drill horizontal la	7. UNIT OF CA AGREEMENT NAME:					
1. TYPE OF WELL OIL WELL	GAS WELL 🗹 OTHER		8. WELL NAME and NUMBER: North Horseshoe 5-20-6-22			
2. NAME OF OPERATOR: Forest Oil Corporation			9. API NUMBER: 4304738019			
3. ADDRESS OF OPERATOR: 707 17th ST Suite 3600	Denver STATE CO Z	PHONE NUMBER: (303) 812-1700	10. FIELD AND POOL, OR WILDCAT:  Exploratory			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2162'			COUNTY: Uintah			
QTR/QTR, SECTION, TOWNSHIP, RAN		22E				
QTR/QTR, SECTION, TOWNSHIP, KAN	GE, MERIDIAN: SYVIVV 20 03	220	STATE: UTAH			
	ROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION			
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL			
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON			
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR			
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE			
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL			
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF			
bate of work completion.	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	✓ OTHER: Extension			
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION				
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The Operator respectfully requests a one year approval extension for the subject location.  Approved by the  Utah Division of Oil, Gas and Mining  Date: 04-73-08  By: COPY SENT TO OPERATOR Date: 5 · / · 2008 Initials: KS						
NAME (PLEASE PRINT) Ginger Bowden TITLE Agent						
SIGNATURE JUNGER BONDEN DATE 4/16/2008						

(This space for State use only)

RECEIVED APR 2 8 2008

#### Application for Permit to Drill Request for Permit Extension Validation

(this form should accompany the Sundry Notice requesting permit extension)

API:	4304738019		
Well Name:	North Horseshoe 5-2	20-6-22	
Location:	Section 20, Townshi	ip 6 South Range 22 East S	WNW
• •	mit Issued to: Permit Issued:	Forest Oil Corporation (H 4/25/2006	louston Exploration Co)
above, hereby	verifies that the i	legal rights to drill on information as submitted and does	
Following is a verified.	checklist of some	e items related to the a	application, which should be
-	rivate land, has then updated? Yes		d, if so, has the surface
		he vicinity of the propents for this location? Y	osed well which would affect ′es⊟ No ☑
		er agreements put in p roposed well? Yes⊡1	lace that could affect the No ☑
	•	to the access route incorposed location? Ye	cluding ownership, or right- s□No☑
Has the approv	ed source of wa	ter for drilling changed	d? Yes□No⊠
	ire a change in p		e location or access route iscussed at the onsite
ls bonding still	in place, which c	overs this proposed w	vell? Yes⊠No□
Tinge	Bowden	<del>}</del>	4/16/2008
Signature 5			Date
Title: Agent		***************************************	
Representing:	Forest Oil Corpora	tion	-

RECEIVED
APR 2 8 2008



## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

June 18, 2009

JOHN R. BAZA

Division Director

Forest Oil Corporation 707 17<sup>th</sup> Street, Suite 3600 Denver, CO 80202

Re:

APD Rescinded – N Horseshoe 5-20-6-22, Sec. 20, T.6S, R.22E

Uintah County, Utah API No. 43-047-38019

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on April 25, 2006. On April 16, 2007 and April 29, 2008, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective June 30, 2009.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Environmental Scientist

Well File cc:

Bureau of Land Management, Vernal



## United States Department of the Interior



BUREAU OF LAND MANAGEMENT Green River District-Vernal Field Office 170 South 500 East Vernal, UT 84078 (435) 781-4400 Fax: (435) 781-4410 http://www.blm.gov/ut/st/en/fo/vernal.html

IN REPLY REFER TO: 3160 UTG011

October 1, 2009

43042 38019

Charles A. Rasey Forest Oil Corporation 707 17<sup>th</sup> Street, Suite 3600 Denver, CO 80202

Re: Notice of Lease Expiration

Well No. North Horseshoe 5-20-6-22

SWNW, Sec. 20, T6S, R22E

Uintah County, Utah Lease No. UTU-76768

(North Horseshoe Bend Unit Invalidated,

effective August 3, 2009.)

Dear Mr. Rasey:

The Application for Permit to Drill for the above-referenced well received in this office on April 18, 2006 is being returned unapproved. According to our records, Federal Lease UTU-76768 has expired by its own terms and conditions, effective September 30, 2009. In view of the foregoing, this office is returning the referenced unapproved Application for Permit to Drill due to the lease expiration.

If you have any questions regarding this matter, please contact me at (435) 781-4455.

Sincerely,

Cindy Swesson

Cindy Severson Land Law Examiner

cc: UDOGM

RECEIVED
OCT 0 8 2009
DIV. OF OIL, GAS & MINING